Lyophyllum semitale PNW07 spring WA iNat118474852 9.3x5.5u
MK280714.1 Lyophyllum semitale PNW02 JLF5884 (3/0/1 8322) iNat66019348 fall
KU574741 Lyophyllum cf canescentipes 4428 (semitale 3) OR
Lyophyllum semitale PNW02 JLF8322 OR iNat35170067 fall
KU574740 Lyophyllum semitale PNW02 1239 OR
PSMS420 Lyophyllum semitale PNW02 OR iNat98675815
Lyophyllum semitale PNW01 Buck 928 Fall
PSMS335 Lyophyllum semitale PNW01 WA spring 119615430 8.3x5.4u
Lyophyllum semitale PNW01 WA spring MO238824 9x5.4u
Lyophyllum semitale PNW01 OR spring iNat24964932
Lyophyllum semitale PNW01 spring WA iNat119114574
KP192653.1 Lyophyllum transforme (blackening Bellinger clade Va-14) EU
KP192617 Lyophyllum pseudosinuatum (blackening Bellinger clade Va-1) EU
KP192568.1 Lyophyllum sp. (blackening Bellinger clade Va-3) EU
AF357050.2 Lyophyllum sykosporum (blackening Bellinger clade Va-5) EU
KP192597.1 Lyophyllum sp. (blackening Bellinger clade Va-13) EU
KP192591.1 Lyophyllum sp. aemiliae f (blackening Bellinger clade Va-12) EU
KP192582.1 Lyophyllum sp. aemiliae f (blackening Bellinger clade Va-12) EU
KU574739.1 Lyophyllum semitale PNW04 cf. pallidum 4496 (big cluster) OR
Lyophyllum (big cluster) semitale PNW04 WA iNat 34666034
KU574739.1 Lyophyllum (big cluster) semitale PNW04 cf. pallidum OR
Lyophyllum (big cluster) semitale PNW04 Victoria BC UDB0778250
JF908338.1 Lyophyllum sp. (blackening Bellinger clade Va-8) EU
Lyophyllum semitale PNW04 NS4573 WA Soda Springs
Lyophyllum (big cluster) semitale PNW04 WA iNat34607503
Lyophyllum semitale PNW04 OR iNat146145668
AF357049.2 Lyophyllum aemiliae EU
KP192596 L. aemiliae PNW06 (blackening Bellinger clade Va-9) EU (alleles)
Lyophyllum aemiliae (semitale UNITE EU 2) UDB037297
Lyophyllum aemiliae (semitale UNITE EU 4) KP192562
Lyophyllum aemiliae PNW06 2/1/6 WA iNat112443890
Lyophyllum (big cluster) semitale PNW04 CA DQ273423
KP192665.1 Lyophyllum pulvus-horrei (blackening Bellinger clade Va-10) EU
KP192614.1 Lyophyllum rhopalopodium (blackening Bellinger clade Va-15) EU
Lyophyllum rhombisporum PNW05 OR iNat101040451
JX966307.1 Lyophyllum sp. (blackening Bellinger clade Va-4) EU
JX966307 Lyophyllum rhombisporum TYPE China
KP192554.1 Lyophyllum amariusculum (blackening Bellinger clade Va-7) EU
AF357048.2 Lyophyllum sp. (blackening Bellinger clade Va-11) EU
KP192571.1 Lyophyllum cf semitale var. intermedium FR (aff 11)
Lyophyllum semitale UNITE EU 5/maleolens UDB037602 (aff 11)
MP3955675 Lyophyllum semitale PNW04 (big cluster) WA
JF908331.1 Lyophyllum caerulescens (blackening Bellinger clade Va-2) EU
KP192662.1 Lyophyllum sp. (blackening Bellinger clade Va-6) EU
Lyophyllum PNW10 LA CA iNat146492206 (different look)
Lyophyllum PNW10 Buck 436 (novel section)
Lyophyllum PNW10 CA iNat150376457 (blackening)
Lyophyllum Va (blackening)
AF357057 Lyophyllum Bellinger clade Vb-4 (cf Tephrocybe ambusta/carbonaria 1) EU
KP192545.1 L. Bellinger clade Vb-5 (cf Tephrocybe ambusta/carbonaria 2) EU
MT378289.1 Lyophyllum shimeji (2/0-1/1) JLF8444 OR iNat 43504800
MK280715.1 Lyophyllum shimeji JLF5957 OR iNat79818580
Lyophyllum shimeji (1/0 official Clade Vb-6) iNat56388028 WA
Lyopyullum shimeji Bellinger clade Vb-6 UNITE Japan+worldwide EU222980
AB301604.1 Lyophyllum shimeji Bellinger clade Vb-6 EU
HM572529.1 Lyophyllum shimeji Bellinger clade Vb-6 EU
Lyophyllum aff. shimeji ID iNat108615780
Lyophyllum cf fumosum UNITE EU 2 (non Bellinger) HM572539
Lyophyllum decastes PNW08 OR spring MO204772
MW015746.1 Lyophyllum decastes PNW08 (pale spring) JLF8646 CA iNat59938487
MK280713 Lyophyllum decastes PNW08 JLF3306 CA iNat65374882 spring
Lyophyllum decastes PNW08 OR spring iNat24962715
Lyophyllum decastes PNW08 WA/ID iNat 43027918 spring
Lyophyllum decastes PNW08 WA spring iNat120541829
Lyophyllum fumosum Bellinger clade Vb-7 (UNITE IF =decastes) EU 1x23) JF908340
KP192663.1 Lyophyllum cf. decastes/conglobatum (Bellinger clade Vb-8) FR
Lyophyllum cf loricatum Bellinger clade Vb-10 (UNITE decastes EU 2x19) JF908336
JX280407.1 Lyophyllum clade Vb-10 cf loricatum f. subxanthum TYPE IT
Lyophyllum decastes Bellinger clade Vb-9 (UNITE EUx2) AF357059
AB285103.1 Lyophyllum decastes JP conifer
Lyophyllum cf decastes Bellinger clade Vb-9 UNITE EU 3 HM572547
Lyophullum decastes Bellinger clade Vb-9 (UNITE EUx1) HM572548
iNat17784220 Lyophyllum decastes WA
MW621166.1 Lyophyllum decastes OR JLF3182
MW621868.1 Lyophyllum decastes OR JLF2935
MW555172 Lyophyllum decastes (1 EU but EU varies by 1) OR JLF9213 iNat68937981
MF955186.1 Lyophyllum decastes Manning Park BC +EUx1
Lyophyllum decastes OR iNat147508588
Lyophyllum Vb-6 (decastes)
KP192644.1 Lyophyllum Bellinger clade Vb-1 (cf Tephrocybe striaepilea) EU
Lyophyllum PNW11 IDx2 +CAx2 iNat162973398
AF357053.2 Lyophyllum Bellinger clade Vb-2 (Tephrocybe atrata) EU
AF357055.2 Lyophyllum anthracophilum EU Bellinger Vb-3 (non-blackening)
Lyophyllum anthracophilum OR iNat100734046 1/1/2n (Vb-3 non-blackening)
Lyophyllum anthracophilum CA iNat152912861
Lyophyllum anthracophilum PNW09 5/2 WA iNat112449895 (no burn)
PSMS282 Lyophyllum anthracophilum WA iNat119020691
Lyophyllum anthracophilum PNW09 WA iNat112449414 (no burn)
Lyophyllum anthracophilum PNW09 WA iNat112445471 (no burn)
Lyophyllum
EU669248.1 Tephrocybe rancida OR (3-4/0)
EU697259.1 Tephrocybe rancida OR (3-4/0)
EU669249.1 Tephrocybe rancida OR (3-4/0)
Tephrocybe rancida UNITE EUx46 JF519599 (Bellanger VII/2)
EU669250.1 Tephrocybe rancida OR (3-4/0)
EU697260.1 Tephrocybe rancida OR (3-4/0)
Tephrocybe
Ossicaulis lignatilis UNITE EUx9 HE649949 (Bellanger IV/3)
MW391255.1 Ossicaulis lignatilis PNW01 iNat65459899 OR
DQ917653.1 Ossicaulis lignatilis PNW01 4 ID
Ossicaulis lignatilis PNW01 WA iNat142120265
Ossicaulis
MH090923.1 Leucocybe (Bellanger I/1) connata OR JLF5911
MP 3954394 Leucocybe connata (dirty alleles)
KJ681025 Leucocybe connata official Alvarado EU
MG953997 Leucocybe connata Mary UBCx4 (all w/photos)
Leucocybe connata WA iNat98397210 (as Clitocybe dilatata)
Leucocybe connata WA iNat98543888 (as Clitocybe dilatata)
Leucocybe candicans WA iNat112445317 0/1/3
Leucocybe candicans WA iNat112414999 0/2
DQ202268 Leucocybe candicans official Alvarado EU+ENA (+CO Buck1005 100)
Leucocybe (Clitocybe) salmonilamella 3/1 OR iNat66349328
PSMS748 Leucocybe salmonilamella WA iNat141509921
iNat34054644 BTSP Clitocybe salmonilamella (3/2+dirty)
Leucocybe salmonilamella BC iNat146854098
NR 158299.1 Leucocybe (Clitocybe) salmonilamella TYPE CA
PSMS842 Leucocybe salmonilamella WA iNat143152518
Leucocybe salmonilamella WA iNat182407587
iNat17471967 Leucocybe (Clitocybe) salmonilamella OR 0/0
Leucocybe salmonilamella WA (as deceptiva BTSP 18) 0/0
Leucocybe salmonilamella BTSP WA (mixup no match)
Leucocybe
KP192569.1 Bellanger XI Lyophyllum konradianum (Tricholyophyllum)
MP3954396 Leucocybe connata (dirty)
Tricholyophyllum PNW04 OR iNat100547391
Tricholyophyllum PNW03 (Bellanger XI) WA iNat101155508 (LSU available)
KP192560 Tricholyophyllum Bellanger XI sp. (as Tephrocybe)
Tricholyophyllum PNW01 WA iNat99656740 (LSU available)
KP192551 Tricholyophyllum Bellanger XI sp. (as Tephrocybe)
MT705717 Tricholyophyllum brunneum TYPE China (Bellanger XI)
Tricholyophyllum PNW02 Buck 741 WA iNat106560129
KP192556 Tricholyophyllum Bellanger XI sp. (as Lyophyllum)
Tricholyophyllum
Myochromella PNW01 WA iNat112445571
Myochromella PNW01 WA iNat112415235
ON478226.1 Myochromella PNW01 WA
ON478198.1 Myochromella PNW01 WA
Myochromella inolens UNITE EUx2 KP192630
MG890331.1 Myochromella PNW03 CA MO307728
Myochromella CA01 CA iNat69483481
Myochromella PNW03 WA iNat147583996
Myochromella sp. uncultured UNITE EUx31 UDB0528703
OM867845.1 Myochromella cf boudieri EU (type EU)
KP192629 Myochromella cf boudieri EU (type EU)
KP192580.1 Myochromella ozes (as Tephrocybe) EUx5 (type EU)
Mycochromella ozes (Tephrocybe) NS4585 WA Dalles
Myochromella PNW01 WA iNat112452216
Myochromella PNW02 OR iNat66596645
Myochromella
SVMFA082 Lyophyllaceae1 sp.2 N.AB
Gerhardtia foliicola WA iNat92151040 (= unseq iNat30292326)
PSMS408 Gerhardtia foliicola WA iNat125130202
PSMS337 Gerhardtia foliicola WA iNat121128335 (+very short iNat31163284)
MT476982 Gerhardtia foliicola Japan+China+Pakistan x12 (type Japan)
EF421103.1 Gerhardtia borealis Bellanger ENA
KP192534.1 Gerhardtia borealis Bellanger EU (type EU)
KU563151.1 Gerhardtia sinensis TYPE China (Bellanger XIII/2-3)
GU734744.1 Gerhardtia highlandensis Bellanger MA (type NC)
KY363576.1 Gerhardtia citrinolobata TYPE Dom Rep
Gerhardtia
Calocybe carnea 1/2-3/4 EU (as collybia eatonae JWL1687B)
KP192592.1 Calocybe carneus EU
AF357028.2 Calocybe persicolor Bellinger (prob = older C. carnea) EU
JF907773.1 Calocybe carneus EU
Calocybe persicolor UNITE EU JF907773
KP192572.1 Calocybe carneus EU
Calocybe gambosa UNITE EUx32 UDB000593
AF357027.2 Calocybe gambosa UNITE EU (inside SH)
KP192622.1 Calocybe onychina Bellinger EU
KP192622.1 Calocybe cf onychina EU
KP192651.1 Calocybe cf onychina EU
MW084664.1 Calocybe aff onychina OR (4/3 EU) (Bellanger IX)
AF357030 Calocybe naucoria EU (1.5 + 1 at beg)
MW084663 Calocybe naucoria OR
KP192543 Calocybe naucoria Bellinger (=fallax nom inv) EU
Calocybe cf fallax EU KP885643
Calocybe cf fallax EU KP885642
Calocybe cf fallax EU KP885641
Calocybe naucoria PNW01 4 OR iNat36786669
Calocybe naucoria PNW01 NY iNat129336138
MT712777 Calocybe naucoria PNW01 AZx2 MO377585
Calocybe
Paralyophyllum turcicum PNW01 8/3 WA iNat98432701
Paralyophyllum turcicum PNW01 WA Buck iNat126302095
KJ158159 Paralyophyllum turcicum TYPE Turkey
Paralyophyllum PNW02 Jacob WA iNat112449743
Paralyophyllum
MK400238 Clitocybe thujana TYPE WA (Paralyophyllum)
Clitocybe thujana (Paralyophyllum) WA iNat100154665 (LSU available)
gen. nov.
Hypsizygus ulmarius UNITE EU 1 UDB019612 (no dots elm only)
Hypsizygus tessulatus iNat 35077147 Vanc BC (6/0/1 marmoreus)
MF955193.1 Hypsizygus tessulatus UBC F-32233
Hypsizygus marmoreus UNITE worldwidex107 (type NY) FJ609279 (1872 cultivated name)
KP192623 Hypsizygus tessulatus EUx1 1791 (4/0/1 PNW 4/1 marmoreus) (inside UNITE marmoreus 0.5)
MT955135.1 Hypsizygus tessulatus (as marmoreus) AK SAT-12-248-04
iNat17296519 Hypsizygus tessulatus OR (0/0/2 BC) (Bellanger I/5)
MF955173.1 Hypsizygus tessulatus (as marmoreus) UBC F-31125
Hypsizygus
MH930352 Lyophyllaceae2 sp. Chile
MN992317 Lyophyllaceae1 sp.1 PQ
Sphagnurus paluster PQ (type NY) +UNITE EUx9 (Bellanger IV/1)
AF357043 Sphagnurus paluster Bellinger EU (0/2 one chunk of 12)
Sphagnurus paluster WA iNat85023222
Sphagnurus
KP192538.1 Sagaranella tylicolor Bellinger EU (II)
NA88 Sagaranella tylicolor/tesquorum (same ITS)
MP3956605 WA Sagaranella tylicolor
Sagaranella
Asterophora parasitica UNITE EUx7 (+MX) UDB018796
Asterophora lycoperdoides iNat 30765687 WA
Asterophora lycoperdoides UNITE EU+global UDB015170 (Bellanger III/1-2)
Asterophora cf lycoperdoides iNat 30974269 WA
Asterophora
Atractosporocybe sclerotoidea BTSP iNat18661705
Atractosporocybe sclerotoidea WA iNat112444413
Atractosporocybe sclerotoidea WA iNat106124888
MT378388.1 Atractosporocybe inornata (type variety) OR JLF8485 iNat36890476
KJ680995 Atractosporocybe inornata official Alvarado EU (Bellanger I/2)
Atractosporocybe
Tephroderma PNW01 WA iNat112453011
Tephroderma PNW01 WA Beug 128672228
Tephroderma PNW01 WA iNat98838317 Beug
Tephroderma PNW01 WA MP3955672
NR 154493.1 Tephroderma fuscopallens TYPE France
Tephroderma
DQ202269 Lyophyllaceae PNW01 gen nov (as Clitocybe subditopoda)
MH856795 Lyophyllaceae PNW01 (as Clitocybe ditopa) EU
Lyophyllaceae PNW01 gen nov WA iNat119320296
Lyophyllaceae PNW01 gen nov OR iNat17477903 (=Pablo s Clitocybe vibecina)
Lyophyllaceae PNW01 WA iNat121746321
EU852800 Lyophyllaceae PNW01 gen nov. (as Clitocybe subditopoda) OSC
MZ314995 Lyophyllaceae PNW01 PA (as Clitocybe subditopoda)
Lyophyllaceae PNW01 WA Buck 1029 (Pablo s Clitocybe vibecina)
gen. nov.
Hertzogia martiorum
KT934393 Clitolyophyllum TYPE Turkey akcaabatense TYPE Turkey
Metalyophyllum PNW01 MO361959 WA
Metalyophyllum PNW01 MO361959 WA iNat39658701 (LSU available)
Metalyophyllum gen. prov.
Lyophyllaceae (Clitocybe IN11 cf inflatipes) as Lactarius deliciosus OR (MP 6598678)
KJ681028.1 Rhizocybe pruinosa EU official Alvarado
KJ681029.1 Rhizocybe pruinosa EU official Alvarado subalpine
Rhizocybe pruinosa Buck 261 Camano WA (0/1/10)
Rhizocybe rhizoides KC1702 (MO 278655) (0/1 type +Ns)
Rhizocybe rhizoides WA iNat128522606
Rhizocybe rhizoides WA iNat115294040
HQ179665 Rhizocybe rhizoides TYPE TN
Rhizocybe
KJ681034 Rhizocybe vermicularis official Alvarado EU
KJ681033.1 Rhizocybe cf vermicularis EU
Rhizocybe cf vermicularis EU UDB0686854
Rhizocybe (Clitocybe) albirhiza OR spring iNat24964312 (type ID)
Rhizocybe albirhiza WA iNat84339641
KY030726 Rhizocybe alba China (TYPE China)
MZ675560.1 Rhizocybe alba China (type China)
R. cf vermicularis subsp americana WA (type WA) iNat 42960264 (2 alba)
Rhizocybe sp. (vermicularis subsp. americanus) WA iNat128523355
Rhizocybe vermicularis subsp americana OR MW415021 iNat66558548
Rhizocybe sp. (vermicularis subsp. americanus) WA iNat38233151
Rhizocybe
AY313279.1 Omphalotus olivascens CA (OUTGROUP)